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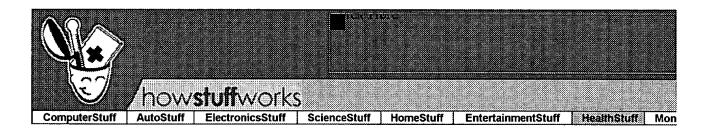
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How Congestive Heart Failure Works

by Carl Bianco, M.D.





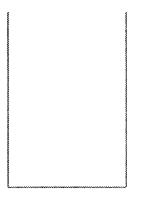
> Introduction to How Congestive What is CHF? Causes of CHF How the Body Compensates f Symptoms of Congestive Hea Physical Exam Findings Diagnostic Tests Treatment of CHF Medications Surgery for CHF Lots More Information

Medications

- Diuretics (water pills) are medications used to increase the amount of se water excreted by the kidneys. This reduces the blood volume and the that the heart has to pump, thereby reducing its workload. The goal ideal weight by eliminating edema. Diuretics include:
 - hvdrochlorothiazide
 - chlorothalidone
 - metalazone (Zaroxolyn):
 - fu rosemide (Lasix)
 - bumetanide (Bumex)
 - trimeratene
 - spironolactone

A major side effect is a low potassium (K+) level, which can cause r and abnormal heart rhythms. Potassium supplements or potassium diuretics can be used either alone or in combination with other diur

Vasodilators are groups of medications that dilate or enlarge blood CHF, the blood vessels are often constricted due to the activation c system and the renin-angiotensin-aldosterone system. Wh are used, they decrease the resistance and blood pressure against must beat, thus increasing the cardiac output. Angiotensin convert inhibitors (ACE inhibit rs) are very effective vasodilators. This is or medications that have actually been shown to prolong lif _in CHF p inhibitors reduce blood pressure and fluid retention by preventing (renin-angiotensin-aldosterone system from working. ACE inhibitors



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captopril (Capoten)
enalapril (Vasotec)
lisinopril (Zestril, Prinivil)
benazepril (Lotensin)
fosinopril (Monopril)
quinapril (Accupril)

Side effects include cough and occasionally a rash.

Angiotensin receptor blockers block the effects of angiotensin instails production. Angiotensin receptor blockers include:

losartan (Cozaar) irbesartan (Avapro) valsartan (Diovan)

These medications do not cause the side effect of cough produced inhibitors.

Nitroglycerin dilates veins and can be taken under the tongue (Nitro intravenously, by mouth (Isosordil, Sorbitrate, ISMO), or by skin pat Transderm-Nitro).

Calcium channel blockers dilate blood vessels and are sometimes especially when ischemia is present. These drugs also tend to decrepted the heart's contraction, however, and so can worsen GHE. Calcium includes

- nifedipine (Procardia XL, Adalat CC)
- diltiazem (Cardizem)
- verapamil (Calan, Isoptin)
- amlodipine (Norvasc)
- felodipine (Plendil)
- nisoldipine (Sular)

Side effects include low blood pressure, headache, edema, and cor
 Hydralazine is a vasodilator that acts on arteries. It is used less free inhibitors have been found to be more effective.

 Alpha blockers block the alpha-adrenergic receptors of the sympats system, thereby dilating blood vessels. Alpha blockers include praz and doxazosin (Cardura). Side effects include rapid heartbeat and I pressure.

Digitalis medications (digoxin, Lanoxin) increase the force of contrepent muscle and also control abnormal heart rhythms, especially a and atrial flutter. Therefore, digitalis is most useful when someone fibrillation or atrial flutter has CHF (a fairly common scenario). It impunction without increasing mortality. It has many side effects, inclined your confusion and new interactions with other medications.

- Beta blockers have been found to be useful for CHF. By blocking the
 beta-adrenergic receptors of the sympathetic nervous system, the
 force of contraction are decreased. Of course, this must be done of
 decreasing these two things can actually worsen CHF. Beta blocke
 - metoproloi (Lopressor, Toprol-XL).
 - atenolol (Tenormin)
 - carvedilol (Coreg)
- Sympathomimetic medications act similarly to the sympathetic nerare used when CHF is severe, such as in cardiogenic shock. They transfer increasing the force of the heart's contraction. Sympathomimetic dropamine (Inotropin) and dobutamine (Dobutrex). Because they must intravenously and are extremely strong, these medications are use CHF has become life threatening. They can cause abnormal heart rischemia.

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